

IN THE CLAIMS:

Please amend the claims, as follows:

1. (Currently Amended) A magnetic recording medium comprising:
 - a substrate;
 - an underlayer formed over said substrate, said underlayer including Cr and Ti;
 - a magnetic recording layer formed directly on said underlayer, having a first magnetic layer, a second magnetic layer and, a non-magnetic intermediate layer formed between said first magnetic layer and said second magnetic layer, wherein
 - said first magnetic layer consisting of Co, Pt, and Cr and formed directly on said underlayer that includes Cr and Ti,
 - said non-magnetic intermediate layer formed directly on said first magnetic layer contains at least one element selected from the group consisting of Ru, Ir, and Rh,
 - said second magnetic layer formed directly on said non-magnetic intermediate layer contains Co as a main component,
 - said first magnetic layer and said second magnetic layer are magnetized in the antiparallel direction in the absence of an applied magnetic field, and ~~the amount of Pt contained in~~ said first magnetic layer is formed to contain an amount of Pt no less than 3 at% and no more than 9 at% so as to improve a signal-to-noise ratio of the magnetic recording medium.
2. (Currently Amended) A magnetic recording medium including a substrate and a magnetic recording layer formed thereon with an underlayer interposed between them, wherein said magnetic recording layer comprises:
 - a first magnetic layer containing only Co, Cr and Pt formed directly on said underlayer,
 - a second magnetic layer, and
 - a non-magnetic intermediate layer formed between said first magnetic layer and said second magnetic layer,
 - said first magnetic layer and said second magnetic layer are magnetized in the antiparallel direction in the absence of an applied magnetic field, ~~the amount of Pt contained in~~ said first magnetic layer being formed to contain an amount of Pt that is

no less than 3 at % and no more than 9 at % so as to improve a signal-to-noise ratio of the magnetic recording medium, wherein

said magnetic recording layer is formed directly on said underlayer, wherein said underlayer includes Cr and Ti,

said non-magnetic intermediate layer is formed directly on said first magnetic layer, and

said second magnetic layer is formed directly on said non-magnetic intermediate layer.

3. (Canceled)
4. (Previously Presented) A magnetic recording medium according to claim 1, wherein said underlayer additionally contains B.
5. (Original) A magnetic recording medium according to claim 1, wherein said non-magnetic intermediate layer has a thickness of 0.3 to 0.9 nm.
6. (Previously Presented) A magnetic recording medium according to claim 1 further comprising; a metal film having an amorphous structure or microcrystalline structure, which is formed between said substrate and said underlayer containing Cr and Ti.
7. (Previously Presented) A magnetic recording medium according to claim 6, wherein the metal film is composed of an alloy containing Ta and Ni.
8. (Currently Amended) A magnetic storage which comprises a magnetic recording medium, a drive unit to turn the magnetic recording medium, a magnetic head consisting of a writing part and a reading part, a means to move the magnetic head relative to the magnetic recording medium, and a signal processing unit to send and receive signals to and from the magnetic head, wherein the reading part of said magnetic head is a giant magneto-resistive effect element or has a tunnel junction which produces the magneto-resistive effect, and said magnetic recording medium which is comprised of:

a substrate;

an underlayer formed over said substrate, said underlayer including Cr and Ti;

and

a magnetic recording layer formed directly on said underlayer, having a first magnetic layer, a second magnetic layer and, a non-magnetic intermediate layer formed between said first magnetic layer and said second magnetic layer, wherein

said first magnetic layer ~~consisting of~~ comprising only Co, Pt, and Cr and being formed directly on said underlayer that includes Cr and Ti,

said non-magnetic intermediate layer formed directly on said first magnetic layer contains at least one element selected from the group consisting of Ru, Ir, and Rh,

said second magnetic layer formed directly on said non-magnetic intermediate layer contains Co as a main component,

said first magnetic layer and said second magnetic layer are magnetized in the antiparallel direction in the absence of an applied magnetic field, and ~~the amount of Pt contained in~~ said first magnetic layer is formed to contain an amount of Pt that is no less than 3 at% and no more than 9 at% so as to improve a signal-to-noise ratio of the magnetic recording medium.

9. (Currently Amended) A magnetic storage which comprises a magnetic recording medium, a drive unit to turn the magnetic recording medium, a magnetic head consisting of a writing part and a reading part, a means to move the magnetic head relative to the magnetic recording medium, and a signal processing unit to send and receive signals to and from the magnetic head, wherein the reading part of said magnetic head is a giant magneto-resistive effect element or has a tunnel junction which produces the magneto-resistive effect, and said magnetic recording medium is one which is comprised of:

a substrate and a magnetic recording layer formed thereon with an underlayer interposed between them, wherein said magnetic recording layer comprises:

a first magnetic layer containing only Co, Cr and Pt formed directly on said underlayer,

a second magnetic layer, and

a non-magnetic intermediate layer formed between said first magnetic layer and said second magnetic layer,

said first magnetic layer and said second magnetic layer are magnetized in the antiparallel direction in the absence of an applied magnetic field, ~~the amount of Pt contained in~~ said first magnetic layer being formed to contain an amount of Pt that is no less than 3 at % and no more than 9 at % so as to improve a signal-to-noise ratio of the magnetic recording medium, wherein

said magnetic recording layer is formed directly on said underlayer, wherein said underlayer includes Cr and Ti,

said non-magnetic intermediate layer is formed directly on said first magnetic layer, and

said second magnetic layer is formed directly on said non-magnetic intermediate layer.

10. (Previously Presented) A magnetic recording medium according to claim 1, further comprising a protective layer formed over said magnetic recording layer and directly on said second magnetic layer.
11. (Canceled)